

Title (en)

ASPHALT COMPOSITIONS AND METHODS OF MAKING SAME

Title (de)

ASPHALTZUSAMMENSETZUNGEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

COMPOSITIONS D'ASPHALTE ET LEURS PROCÉDÉS DE FABRICATION

Publication

EP 3609664 B1 20220216 (EN)

Application

EP 18801733 A 20180518

Priority

- US 201762508065 P 20170518
- US 2018033523 W 20180518

Abstract (en)

[origin: US2018334554A1] A coupled block copolymer composition with a combination of high viscosity at manufacturing, finishing and handling conditions, low viscosity at asphalt blending conditions and suitable viscosity stability is provided for use in asphalt compositions. The composition comprises: (i) a diblock copolymer, (ii) at least a linear triblock copolymer having a peak molecular weight that is 1.5 to 3.0 times the peak molecular weight of the diblock copolymer, and (iii) at least a multiarm coupled block copolymer having a peak molecular weight that is 1.5 to 9.0 times the peak molecular weight of the diblock copolymer, and mixtures thereof. The block copolymer composition is characterized as having a melt viscosity at 110° C. or less of greater than 2.0E7 Poise and a coupling efficiency after 24 hours at 180° C. is less than 25%.

IPC 8 full level

B28C 7/00 (2006.01); **C08J 3/00** (2006.01); **C08L 21/00** (2006.01)

CPC (source: EP KR US)

C04B 24/2676 (2013.01 - EP KR US); **C04B 24/36** (2013.01 - EP KR US); **C04B 26/26** (2013.01 - EP KR US); **C08F 297/023** (2013.01 - EP US); **C08F 297/044** (2013.01 - KR); **C08L 9/06** (2013.01 - KR US); **C08L 53/02** (2013.01 - EP KR US); **C08L 95/00** (2013.01 - EP KR US); **C08L 95/005** (2013.01 - EP KR US); **C09D 109/06** (2013.01 - KR US); **C09J 109/06** (2013.01 - KR US); **C04B 2103/0061** (2013.01 - EP KR US); **C04B 2103/0075** (2013.01 - EP US); **C04B 2111/00586** (2013.01 - EP KR US); **C04B 2201/10** (2013.01 - EP US); **C08L 2205/025** (2013.01 - EP KR US); **C08L 2205/03** (2013.01 - EP KR US); **C08L 2555/84** (2013.01 - EP KR US)

C-Set (source: EP US)

1. **C04B 26/26 + C04B 2103/0061 + C04B 2103/0061 + C04B 2103/0061**
2. **C04B 26/26 + C04B 24/2676 + C04B 24/2676 + C04B 24/2676**
3. **C08L 95/00 + C08L 53/02**
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Designated contracting state (EPC)

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DOCDB simple family (publication)

US 10767033 B2 20200908; US 2018334554 A1 20181122; CN 110809508 A 20200218; CN 110809508 B 20210827; EP 3609664 A1 20200219; EP 3609664 A4 20210113; EP 3609664 B1 20220216; EP 3609664 B8 20220427; KR 102645417 B1 20240311; KR 20200004421 A 20200113; WO 2018213792 A1 20181122

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